

Proven Storage for VMware Horizon

All-Flash VDI with 10X the Scalability

Atlantis Computing, IBM, Lenovo and VMware have introduced the world's first optimized All-Flash storage solution for VMware Horizon that can deliver scalability of 10,000 users in 2U of storage on Lenovo x86 servers with six times the disk performance of a MacBook Air and a storage cost of \$90 per desktop.

Atlantis Software

Atlantis delivers a software-defined storage platform that increases the scalability and performance of storage systems by up to 20 times for VMware Horizon deployments. Atlantis HyperDup Content-Aware Data Services are applied at the hypervisor layer to increase the effective storage capacity, accelerate performance and speed up deployments.

IBM FlashSystem™

IBM FlashSystem 900 is an all-flash storage system that provides up to 60TB of enterprise-class redundant All-Flash Storage with microsecond latency. Easy to deploy and manage, IBM FlashSystem delivers savings across the entire organization with industry-leading density. The IBM FlashSystem architecture delivers the reliability, availability and serviceability (RAS) required by today's persistent desktop deployments with enterprise-class, flash RAID technology. To further minimize downtime, IBM FlashSystem supports concurrent code load and maintenance for non-disruptive firmware upgrades.

VMware Horizon

VMware Horizon 6 delivers virtualized or remoted desktops and applications through a single platform to end users. These desktop and application services — including RDS hosted apps, packaged apps with VMware ThinApp®, SaaS apps, and even virtualized apps from Citrix — can all be accessed from one unified workspace across devices, locations, media and connections. Leveraging closed loop management and optimized for the software-defined data center, Horizon 6 helps IT control, manage and protect all of the Windows resources end users want, at the speed they expect, with the efficiency business demands.

KEY BENEFITS

Lower than PC Cost

- \$90 per desktop (FlashSystem and Atlantis)

Better-than-PC User Experience

- **VDI:** 6x Disk Performance of MacBook Air
- **IOPS:** up to 1.9 million IOPS

Scalability

- 10,000 persistent desktops in 2U of storage

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Storage and Backup for
Virtualized Environments



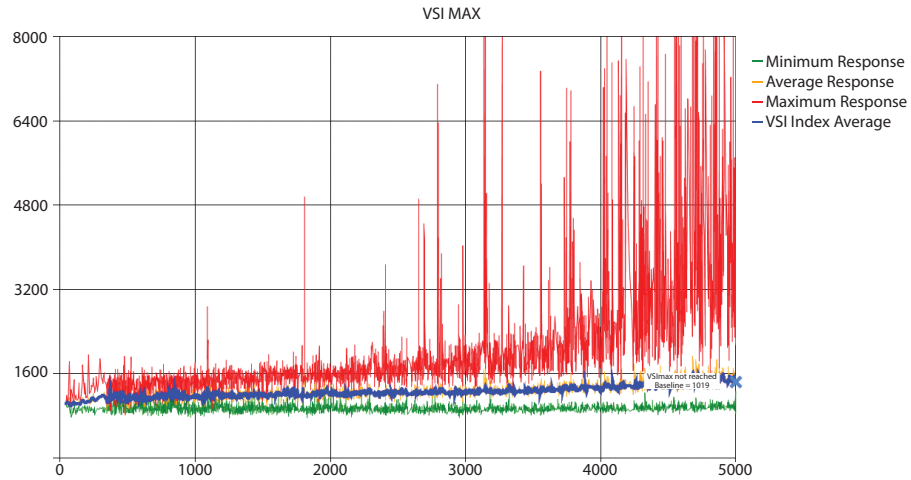
Atlantis with our existing IBM FlashSystem storage was a much better solution. I have never seen anything perform faster.

— Bryan McClellan
Systems Architect
Kelsey-Seybold Clinic



vmware®
READY

CHART 1
LoginVSI 3.7 Medium
Workload Benchmark



5,000 User Persistent VDI Reference Architecture with VMware Horizon 6, Atlantis, IBM FlashSystem, and Lenovo x86 servers

Lenovo server technical enablement team conducted validation testing of the joint solution with VMware Horizon 6 using Atlantis software with a 20TB IBM FlashSystem 900 as storage for 5,000 persistent virtual desktops running on Lenovo x86 servers. The testing included Login VSI 3.7, the industry standard load testing tool for virtualized desktop environments. The LoginVSI results (see Chart 1 above) show that the joint Atlantis, IBM FlashSystem, Lenovo and VMware Horizon 6 solution can scale to more than 5,000 users with an excellent user experience (1019 ms baseline), while maintaining an average server density of 143 users per Lenovo x86 server. This 5,000 user LoginVSI benchmark is the largest scale persistent VDI test ever published – more than five times more scalable than the next best All-Flash Array. With a larger 60TB IBM FlashSystem 900, it is possible to scale the system up to 10,000 users. Additional storage performance testing using ioMeter and PassMark showed desktop performance that was 13x faster than a typical physical PC user experience and 6x faster than a MacBook Air with an SSD.

This unique solution is VMware Horizon Fast Track 2.0 Proven Storage certified.

PERSISTENT VDI RECOMMENDED CONFIGURATION

	5,000 USERS	10,000 USERS
Virtual Desktops	Windows 7 Persistent Desktops	Windows 7 Persistent Desktops
VDI Solution	VMware Horizon 6 with vSphere 5.5	
Storage Optimization	Atlantis ILIO 4.1 Persistent VDI	
Storage	20TB IBM FlashSystem 900	40TB IBM FlashSystem 840
Compute	Lenovo Servers with at least 256 GB of RAM and 2 x Intel E5-2690 v2 processors	
Networking	Lenovo G8264 64 port 10GbE TOR and IBM SAN48B-5 FC switch	



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